

**AMENDMENTS TO THE CLAIMS**

Please **AMEND** claims 1, 2, 4, 5, 6 and 9 as shown below.

Please **CANCEL** claims 7 and 8.

Please **ADD** claims 11-18 as shown below.

The following is a complete list of all claims in this application.

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1. (Currently Amended) A radar emission absorbing material comprising a carbon foam having a dielectric constant ~~of~~ from about 2 to about 6 and an electrical resistivity ~~in the range ranging from of between~~ about  $1.E^{+00}$  ohm-cm ~~and to~~ about  $1.E^{+06}$  ohm-cm.

2. (Currently Amended) The radar emission absorbing material of claim 1 wherein said carbon foam is ~~derived~~ prepared from ~~a member~~ at least one selected from the group consisting of: particulate coal, coal tar pitch, petroleum pitch and carbonized polymeric materials.

3. (Original) The radar emission absorbing material of claim 2 wherein said carbon foam is a coal-based carbon foam.

4. (Currently Amended) The radar emission absorbing material of claim 3 wherein said carbon foam is derived from particulate coal exhibiting a free swell index ~~of between from~~ about 3.5 ~~and to about~~ 5.0.

5. (Currently Amended) The radar emission absorbing material of claim 4 wherein said particulate coal exhibits a free swell index ~~of between~~ ranging from about 3.75 ~~and~~ to about 4.5

6. (Currently Amended) The radar emission absorbing material from claim 5 wherein said coal-based carbon foam is a ~~semi-crystalline, largely isotropic,~~ porous coal-based product having a density ~~of between~~ ranging from about 0.1 g/cm<sup>3</sup> ~~and to~~ about 0.8 g/cm<sup>3</sup>

7. (Cancelled) A method for producing a radar emission absorbing material comprising:

- A) comminuting coal exhibiting a free swell index of between about 3.5 and about 5.0 to a small particle size to form a particulate coal;
- B) heating said ground coal in a mold under a non-oxidizing atmosphere to a temperature of between about 300°C and about 600°C and soaking at this temperature for a period of from about 10 minutes to about 12 hours to form a green foam;
- C) controllably cooling said green foam;
- D) carbonizing said green foam to form a carbonized foam by heating to a temperature of between about 600°C and about 800°C for a period of from about 2 to about 30 minutes or until said carbonized foam exhibits a dielectric constant of between about 2 and about 6 and an electrical resistivity of between about 1.E<sup>+00</sup> ohm-cm and about 1.E<sup>+06</sup> ohm-cm.

8. (Cancelled) The method of claim 7 wherein said particulate coal exhibits a free swell index of between about 3.75 and about 4.5.

9. (Currently Amended) A radar emission absorbing material comprising a carbon foam manufactured by a process comprising:

- A) ~~comminuting coal exhibiting a free swell index of between about 3.5 and about 5.0 to a small particle size to form a particulate coal;~~
- B) heating said ground particulate coal in a ~~mold~~ under a pressurized non-oxidizing atmosphere having a pressure ranging from 50 psi to about 500 psi, to a temperature ~~of between~~ ranging from about 300° C ~~and to~~ about 600° C ~~and soaking at this temperature for a period of from about 10 minutes to about 12 hours~~ to form a green foam;
- C) ~~controllably cooling said green foam;~~
- D) carbonizing said green foam to form a carbonized foam by heating said green foam to a temperature ~~of between~~ above about 600°C ~~and about 800°C for a period of from about 2 to about 30 minutes or until said carbonized foam exhibits a dielectric constant of between~~ ranging from about 2 ~~and to~~ about 6 and an electrical resistivity ~~of between~~ ranging from about  $1.E^{+00}$  ohm-cm ~~and to~~ about  $1.E^{+06}$  ohm-cm.

10. (Original) The radar emission absorbing material of claim 9 wherein said particulate coal exhibits a free swell index of between about 3.75 and about 4.5.

11. (New) The radar emission absorbing material of claim 9 wherein said particulate coal exhibits a free swell index ranging from about 3.5 to about 5.
12. (New) A radar emissions absorbing body comprising carbon foam on a surface of a body, wherein the carbon foam has a dielectric constant from about 2 to about 6 and an electrical resistivity ranging from about  $1.E^{+00}$  ohm-cm to about  $1.E^{+06}$  ohm-cm.
13. (New) A method for creating a radar emission absorbing surface comprising the step of locating carbon foam having a dielectric constant from about 2 to about 6 and an electrical resistivity ranging from about  $1.E^{+00}$  ohm-cm to about  $1.E^{+06}$  ohm-cm on a surface of a body.
14. (New) A radar emissions absorbing material comprising a carbon foam having a dielectric constant from about 2 to about 6 and an electrical resistivity from about  $1.E^{+00}$  ohm-cm to about  $1.E^{+06}$  ohm-cm when said carbon foam is used as a radar emissions absorbing material.
15. (New) The radar emission absorbing material of claim 14 wherein said carbon foam is prepared from at least one selected from the group consisting of: particulate coal, coal tar pitch, petroleum pitch and carbonized polymeric materials.
16. (New) The radar emission absorbing material of claim 14 wherein said carbon foam is a coal-based carbon foam.

17. (New) The radar emission absorbing material of claim 14 wherein said carbon foam is derived from particulate coal exhibiting a free swell index from about 3.5 to about 5.0.

18. (New) The radar emission absorbing material of claim 14 wherein said coal-based carbon foam is a porous coal-based product having a density ranging from about 0.1 g/cm<sup>3</sup> to about 0.8 g/cm<sup>3</sup>.